106TH CONGRESS 2D SESSION

S. 2362

To amend the Clean Air Act to direct the Administrator of the Environmental Protection Agency to consider risk assessments and cost-benefit analyses as part of the process of establishing a new or revised air quality standard.

IN THE SENATE OF THE UNITED STATES

APRIL 5, 2000

Mr. Voinovich (for himself, Mr. Breaux, Mr. Inhofe, and Ms. Landrieu) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

A BILL

To amend the Clean Air Act to direct the Administrator of the Environmental Protection Agency to consider risk assessments and cost-benefit analyses as part of the process of establishing a new or revised air quality standard.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Air Quality Standard
- 5 Improvement Act of 2000".
- 6 SEC. 2. PURPOSES.
- 7 The purposes of this Act are—

- 1 (1) to establish more effective environmental
 2 standards to continue to safeguard public health and
 3 the environment;
 4 (2) to promote better resource allocation to en-
 - (2) to promote better resource allocation to ensure that serious risks to air quality are addressed first;
 - (3) to improve the ability of the Administrator of the Environmental Protection Agency to use scientific and economic analysis in developing air quality standards;
 - (4) to yield increased public health and environmental benefits and more effective protections while minimizing costs;
 - (5) to require that relevant qualitative and quantitative information be considered in the process of evaluating the costs and benefits of air quality standards;
 - (6) to promote the right of the public to know about the costs and benefits of air standards, the risks addressed, the risks reduced, and the quality of scientific and economic analysis used to support decisions; and
 - (7) to require the Administrator of the Environmental Protection Agency to conduct risk assessments and cost-benefit analyses as part of the proc-

1	ess of establishing a new or revised air quality
2	standard.
3	SEC. 3. RISK ASSESSMENT AND COST-BENEFIT ANALYSIS.
4	The Clean Air Act (42 U.S.C. 7401 et seq.) is amend-
5	ed by adding at the end the following:
6	"TITLE VII—RISK ASSESSMENT
7	AND COST-BENEFIT ANALYSIS
8	"SEC. 701. DEFINITION OF AIR QUALITY STANDARD.
9	"In this title, the term 'air quality standard' means—
10	"(1) a national ambient air quality standard es-
11	tablished under section 109 (including the setting of
12	any emissions budget for purposes of attaining or
13	maintaining any national ambient air quality stand-
14	ard);
15	"(2) an increment or ceiling for the prevention
16	of significant deterioration established under section
17	163;
18	"(3) regulations established under section 169A
19	to address the regional haze or other impairment of
20	visibility by manmade air pollution in a mandatory
21	class I Federal area;
22	"(4) any finding or emission limitation deter-
23	mined under section 126;
24	"(5) any emission standard or requirement that
25	applies to on-road and nonroad mobile sources (in-

1	cluding aircraft engine standards) established under
2	title II;
3	"(6) any requirement that imposes a limitation
4	on the quality of fuel used in mobile sources;
5	"(7) any emission limitation or emission budget
6	for sulfur dioxide or nitrogen oxides established
7	under title IV;
8	"(8) any preconstruction review requirement
9	that regulates new sources or major modifications of
10	existing sources in attainment or nonattainment
11	areas;
12	"(9) the setting of any emissions budget or
13	other requirement for purposes of attaining or main-
14	taining any national ambient air quality standard
15	under section 110;
16	"(10) any new source performance standard,
17	existing source performance standard, or design,
18	equipment, work practice, or operational standard
19	established or revised under section 111;
20	"(11) any standard to protect public health and
21	the environment described in section 112(f);
22	"(12) any new regulation applicable to an elec-
23	tric utility steam generating unit under section
24	112(n);

1	"(13) the designation of a pollutant under sec-
2	tion 115 as causing or contributing to air pollution
3	that may reasonably be anticipated to endanger pub-
4	lic health or welfare in a foreign country;
5	"(14) any air pollution control technique infor-
6	mation, transportation planning guidelines, informa-
7	tion on procedures and methods to reduce mobile
8	source air pollution, or control technique guidelines
9	issued under sections 108 and 183;
10	"(15) any identification of attainment dates for
11	national ambient air quality standards under part D;
12	"(16) any identification of control measures for
13	the reduction of interstate ozone air pollution under
14	section 184; and
15	"(17) any identification of reasonably available
16	control measures and best available control measures
17	for particulate matter under section 190.
18	"SEC. 702. RISK ASSESSMENT, MANAGEMENT, AND COMMU-
19	NICATION.
20	"(a) Use of Science in Decisionmaking.—In car-
21	rying out this Act, (including establishing a new or revised
22	air quality standard under this Act), the Administrator
23	shall base any scientific or technical conclusions on—

- 1 "(1) the best available, peer-reviewed science 2 and supporting studies conducted in accordance with 3 sound and objective scientific practices;
 - "(2) data collected by accepted methods or the best available methods (if the reliability of the method and the nature of the decision justifies use of the data);
 - "(3) data (including the underlying research data) that have been made available to the public, subject to the exemptions under section 552 of title 5, United States Code.

"(b) Public Information.—

- "(1) IN GENERAL.—In carrying out this section, the Administrator shall ensure, to the maximum extent practicable, that the presentation of information on public health effects concerning any new or revised air quality standard is comprehensive, informative, understandable, and conveniently available for public comment prior to the promulgation of any regulation under this Act.
- "(2) Specifications.—The Administrator shall, in a document made available to the public in support of a regulation proposed or promulgated under this Act concerning an air quality standard, specify, to the maximum extent practicable—

1	"(A) each population addressed by any es-
2	timate of public health effects;
3	"(B) the expected risk or central estimate
4	of risk for the specific populations or resources,
5	where applicable, and each appropriate upper-
6	bound or lower-bound estimate of risk;
7	"(C) each significant uncertainty identified
8	in the process of the assessment of public
9	health effects, and studies that would assist in
10	resolving the uncertainty; and
11	"(D) peer-reviewed studies known to the
12	Administrator that support, are directly rel-
13	evant to, or fail to support any estimate of pub-
14	lic health effects, and the methodologies used to
15	reconcile inconsistencies in the scientific data.
16	"(3) Health risk reduction and cost
17	ANALYSIS.—
18	"(A) In general.—As part of the process
19	of proposing a new or revised air quality stand-
20	ard, the Administrator shall publish in the Fed-
21	eral Register and seek public comment on an
22	analysis of each of the following:
23	"(i) Quantifiable and nonquantifiable
24	benefits for which there are factual bases
25	in the rulemaking record to conclude that

the benefits are likely to occur as the result of actions taken to comply with the new or revised air quality standard.

"(ii) Quantifiable and nonquantifiable health benefits for which there are factual bases in the rulemaking record to conclude that the benefits are likely to occur from reductions in other related pollutants that may be attributed to compliance with the new or revised air quality standard, excluding benefits resulting from compliance with other proposed or promulgated regulations.

"(iii) Quantifiable and nonquantifiable costs for which there is a factual basis in the rulemaking record to conclude that the costs are likely to occur as the result of actions taken to comply with or attain the new or revised air quality standard, which costs shall include monitoring, actions taken to comply with or attain the new or revised air quality standard, and other costs, and excluding costs resulting from compliance with other proposed or promulgated regulations.

1	"(iv) The incremental costs and bene-
2	fits associated with each alternative new or
3	revised air quality standard considered.
4	"(v) The effects of the air pollutant or
5	pollutants for which a new or revised air
6	quality standard is being considered on the
7	general population, including, to the extent
8	relevant and appropriate and where data
9	are reasonably available, the effects on
10	groups within the general population such
11	as infants, children, pregnant women, the
12	elderly, individuals with a history of seri-
13	ous illness, or other subpopulations that
14	are identified as likely to be at greater risk
15	of adverse health effects due to exposure to
16	an air pollutant than the general popu-
17	lation.
18	"(vi) Any risk that may occur as the
19	result of compliance with or attainment of
20	the new or revised air quality standard, in-
21	cluding risks associated with other related
22	pollutants.
23	"(vii) Other relevant factors, including
24	the quality and extent of the information
25	available concerning the new or revised air

quality standard, the uncertainties in the analysis supporting clauses (i) through (vi), and factors with respect to the degree, and quantitative and qualitative descriptions of the nature, of any risk.

"(B) APPROACHES TO MEASURE AND VALUE BENEFITS.—The Administrator may identify valid approaches for the measurement and valuation of benefits under this paragraph, including approaches to identify consumer willingness to pay for reductions in health risks from air pollutants.

"(C) AUTHORIZATION OF APPROPRIA-TIONS.—There is authorized to be appropriated to the Administrator to conduct studies, assessments, and analyses described in this section \$35,000,000 for each of fiscal years 2000 through 2003.

19 "SEC. 703. COST-BENEFIT ANALYSIS.

- 20 "(a) Definitions.—In this section:
- "(1) BENEFIT.—The term 'benefit' means the reasonably identifiable significant favorable effects, quantifiable and nonquantifiable, including social, health, safety, environmental, and economic effects, that are expected to result from implementation of,

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- or compliance with, a new or revised air quality standard.
 - "(2) Cost.—The term 'cost' means the reasonably identifiable significant adverse effects, quantifiable and nonquantifiable, including social, health, safety, environmental, and economic effects, that are expected to result from implementation of, or compliance with, a new or revised air quality standard.
- 9 "(3) Cost-benefit analysis.—The 'cost-benefit analysis' means an evaluation of the 10 11 costs and benefits of a new or revised air quality 12 standard, quantified to the extent feasible and ap-13 propriate and otherwise qualitatively described, that 14 is prepared in accordance with the requirements of 15 this section at the level of detail appropriate and 16 practicable for reasoned decisionmaking on the mat-17 ter involved, taking into consideration uncertainties, 18 the significance and complexity of the decision, and 19 the need to adequately inform the public.
- 20 "(b) ANALYSIS.—For each new or revised air quality21 standard proposed, the Administrator—
- "(1) shall conduct and publish, for public comment, a cost-benefit analysis to determine whether the benefits of the new or revised air quality standard justify, or do not justify, the costs; and

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1	"(2) may analyze the potential distributional ef-
2	fects of the new or revised air quality standard.
3	"(c) Determination of Health Risk Reduction
4	AND COST CONSIDERATIONS.—
5	"(1) Determination of no justification
6	FOR COST.—
7	"(A) In General.—Notwithstanding any
8	other provision of this Act, if the Administrator
9	determines, based on an analysis conducted
10	under subsection (b), that the benefits of a new
11	or revised air quality standard proposed or pro-
12	mulgated in accordance with this Act do not
13	justify the costs, the Administrator may, after
14	notice and opportunity for public comment, pro-
15	mulgate an alternative new or revised air qual-
16	ity standard at a cost that is justified by the
17	benefits.
18	"(B) Scope of Consideration.—In mak-
19	ing a determination under subparagraph (A),
20	the Administrator shall consider—
21	"(i) only public health benefits, with
22	respect to a determination concerning a
23	primary national ambient air quality
24	standard; and

1	"(ii) public health and environmental
2	benefits, with respect to a determination
3	concerning any air quality standard other
4	than a national ambient air quality stand-
5	ard.
6	"(2) Judicial Review.—A determination by
7	the Administrator under paragraph (1)—
8	"(A) shall be reviewed by a court only as
9	part of a review of a final regulation that has
10	been promulgated based on the determination;
11	and
12	"(B) shall be set aside by a court if the
13	court finds that the determination is arbitrary
14	and capricious.
15	"(d) Authorization of Appropriations.—There
16	are authorized to be appropriated such sums as are nec-
17	essary to carry out this section "

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